



## VORTRÄGE

15:45 Uhr Kaffeejause

**Mittwoch, 16. November 2016 von 16:15 Uhr bis 17:00 Uhr, Sky Lounge, OMP 1**

**Mathematisches Kolloquium: Florian Theil (Warwick): "Rigidity theorems and crystalline order"**

A classic phenomenon in nature is the emergence of crystalline order at low temperatures. Until recently not much was known about this problem in the case of atomistic systems without a lattice structure. A well accepted mathematical model is given by scalar functions  $E$  which assign to finite subsets  $Y$  of  $\mathbb{R}^d$  the energy  $E[Y]$ , where  $d$  is either 2 or 3. The task consists in characterizing the most likely configurations of the Boltzmann-Gibbs distribution  $P[Y] = Z^{-1} \exp(-E[Y]/T)$  and the minimizers of  $E$ . I will discuss the notions 'periodicity of energy minimizers' and 'order formation'; finally I will show that both notions are closely linked to geometric rigidity estimates.

im Anschluss vinum cum pane

Ulisse Stefanelli, Christian Krattenthaler

**Montag, 14. November 2016 von 15:00 Uhr bis 16:00 Uhr, SR 13, 2. OG., OMP 1,**

**Habilitationsvortrag: Eduard Nigsch (Univ. Wien): „The geometrization of the theory of Colombeau algebras“**

Abstract: We will discuss recent progress in developing Colombeau's theory of nonlinear generalized functions into a geometric theory. This involves the construction of spaces of nonlinear generalized sections of vector bundles which contain the corresponding spaces of distributional sections. Additionally, this has to be done in a way such that classical operations on smooth and distributional sections are preserved as far as possible. While the classical theory of Colombeau algebras withstood such a geometrization for over two decades, the involved difficulties were recently overcome by a complete restructuring of the foundations of the theory. I will explain the basic problem as well as the most significant ideas involved in this process and how they combine to give the desired construction.

org. by M. Kunzinger, Ch. Krattenthaler (Details siehe Anhang)

**Montag, 14. November 2016, ab 9:00 Uhr bis Freitag, 18. November 16:40 Uhr 2016, ESI, Boltzmannngasse 9/2, 1090 Wien, [Boltzmann Lecture Hall](#).**

**Workshop ESI: "Normal Numbers: Arithmetic, Computational and Probabilistic Aspects",**

org. by Christoph Aistleitner (TU Graz), Yann Bugeaud (U Strasbourg), Theodore Slaman (UC, Berkeley), Robert Tichy (TU Graz), (Details: siehe Anhang)

**Montag, 14. November 2016, ab 13:00 Uhr, AG Gravitation, Währingerstr. 17, 1. OG.,**

**Lunch SE: Luis Cortes Barbado (TU Vienna): "Hawking versus Unruh effects: What do you see when you fall into a black hole"**

org. by P. Chrusciel (Details siehe Anhang)

**Dienstag, 15. November 2016 von 13:15 Uhr bis 14:45 Uhr, SR 10, 2. OG., OMP 1**

**Complex Analysis SE: Stefan Földes (Univ. Wien): "Some remarks about the wavefront set"**

org. by B. Lamel, M. Reiter

<http://complex.univie.ac.at/events/detail-of-event/news/some-remarks-about-the-wavefront-set/>

**Dienstag, 15. November 2016, von 15:00 Uhr bis 17:00 Uhr, SR 9, 2. OG., OMP 1**

**Geometry and Analysis on Groups, Research SE: Martin Finn-Sell (Univ. Wien): "Amenability for étale groupoids, failures of Hulanicki's theorem and the weak containment story"**

org. by G. Arzhantseva, Ch. Cashen

<http://www.mat.univie.ac.at/~gagt/abstracts/161115.html>



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**Dienstag, 15. November 2016, von 15:00 Uhr bis 16:00 Uhr**, SR Biomathematik, 9. OG., OMP 1

**AG Biomathematik:** Ankica Markovic (Uni Wien): "Stability in the three dimensional Lotka-Volterra model"

org. by J. Hermisson, R. Bürger

<http://homepage.univie.ac.at/Reinhard.Buerger/AGBio.html>

**Donnerstag, 17. November 2016, von 16:00 Uhr bis 18:00 Uhr**, Josephinum, SR 8 (Zi.02.101), Währinger Str. 25, 1090 Wien,

**KGRC Research Seminar:** Andrea Medini (KGRC): "The topology of filters"

org. by Kurt Gödel Research Center

[http://www.logic.univie.ac.at/2016/Talk\\_11-17\\_a.html](http://www.logic.univie.ac.at/2016/Talk_11-17_a.html)

**Donnerstag, 17. November 2016, ab 16:30 Uhr**, SR 09, 2. St., OMP1,

**Vienna Seminar in Mathematical Finance and Probability:** Mladen Savov (Bulgarian Academy of Science): "Bernstein-gamma functions and exponential functionals of Lévy processes"

<https://fam.tuwien.ac.at/events/vs-mfp/>

**Freitag, 18. November 2016, von 10.00 Uhr bis 18:00 Uhr**, TU Wien,

**Tagung:** ÖMG-Tag der Mathematik 2016

org. by Ch. Krattenthaler, (U. Wien), A. Ostermann (U. Innsbruck), W. Woess (U. Graz)

<http://www.oemg.ac.at/Tagungen/TdM2016>